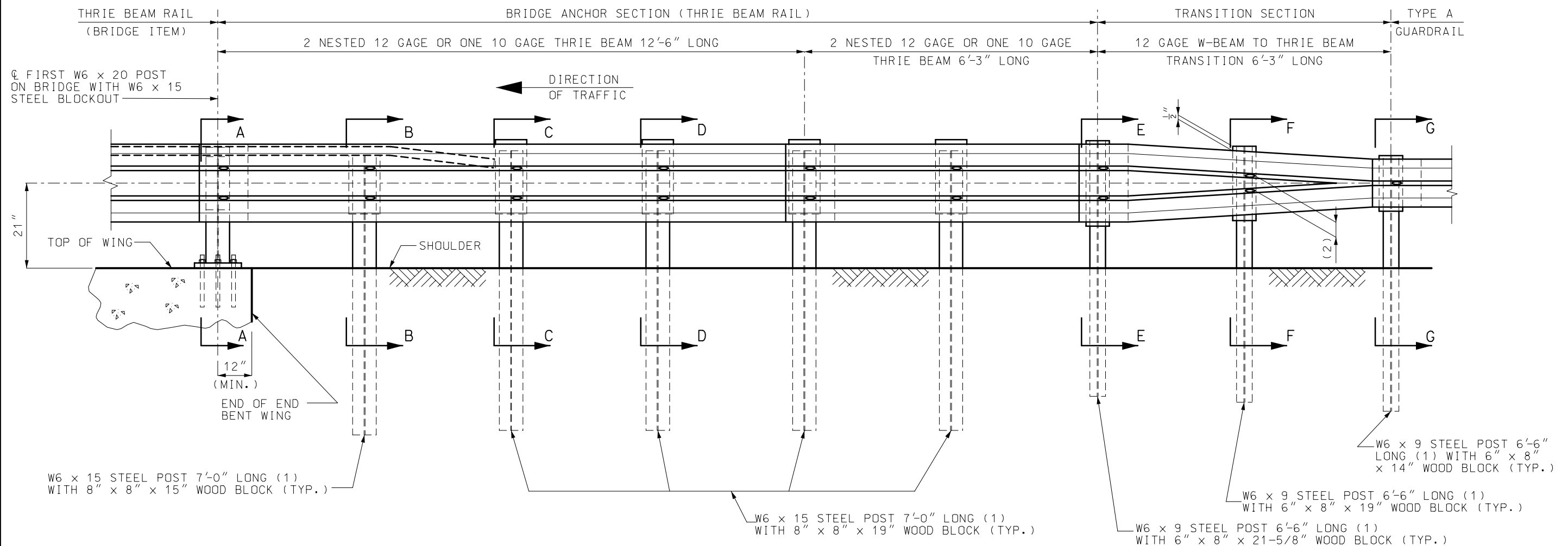


PLAN



PART SECTION THRU SLAB AT END OF WING

NOTES:

FOR GENERAL NOTES, SEE SHEET2 OF 5.

FOR POST DETAILS AND SECTION VIEWS, SEE SHEET 2 AND 3 OF 5.

(1) AT CONTRACTOR'S OPTION, EQUIVALENT SECTIONS MAY BE FABRICATED FROM MATERIAL MEETING AND IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A769 GRADE 36 OR 40. THE SECTIONS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO 111.

(2) VERIFY BY RAIL TRANSITION PRODUCER.

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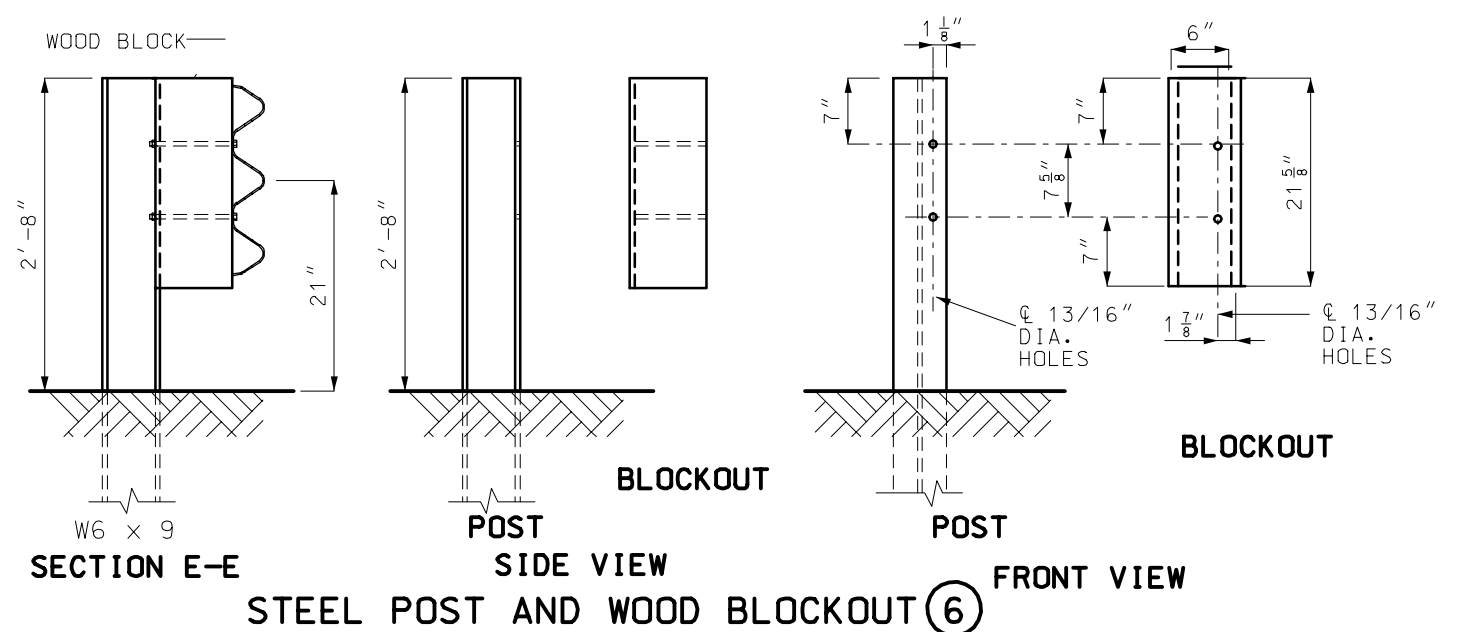
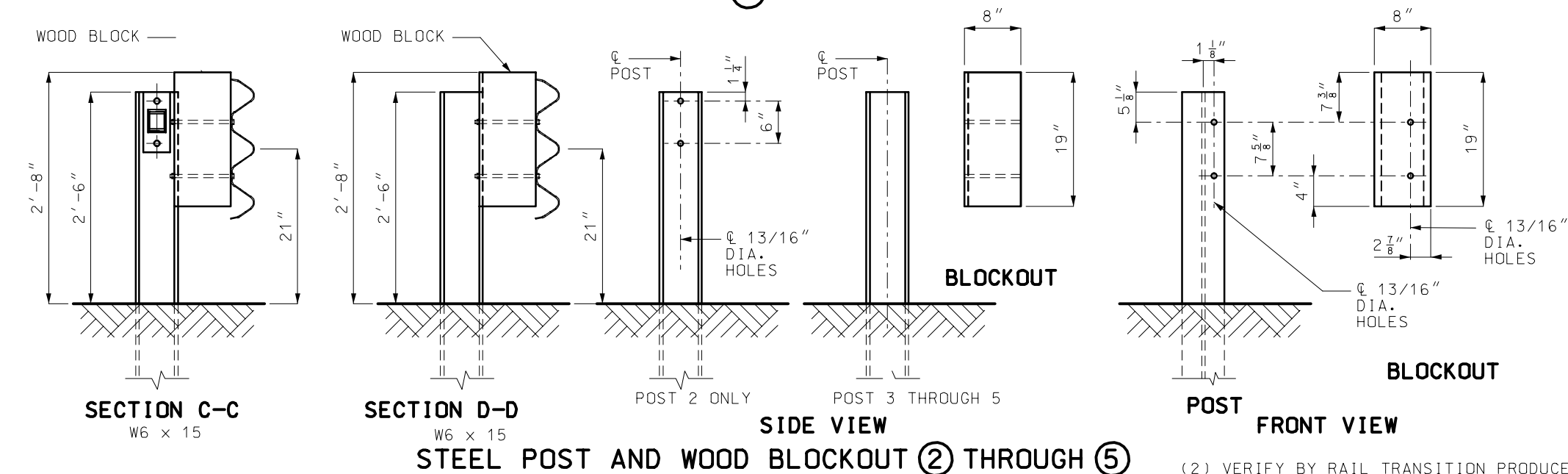
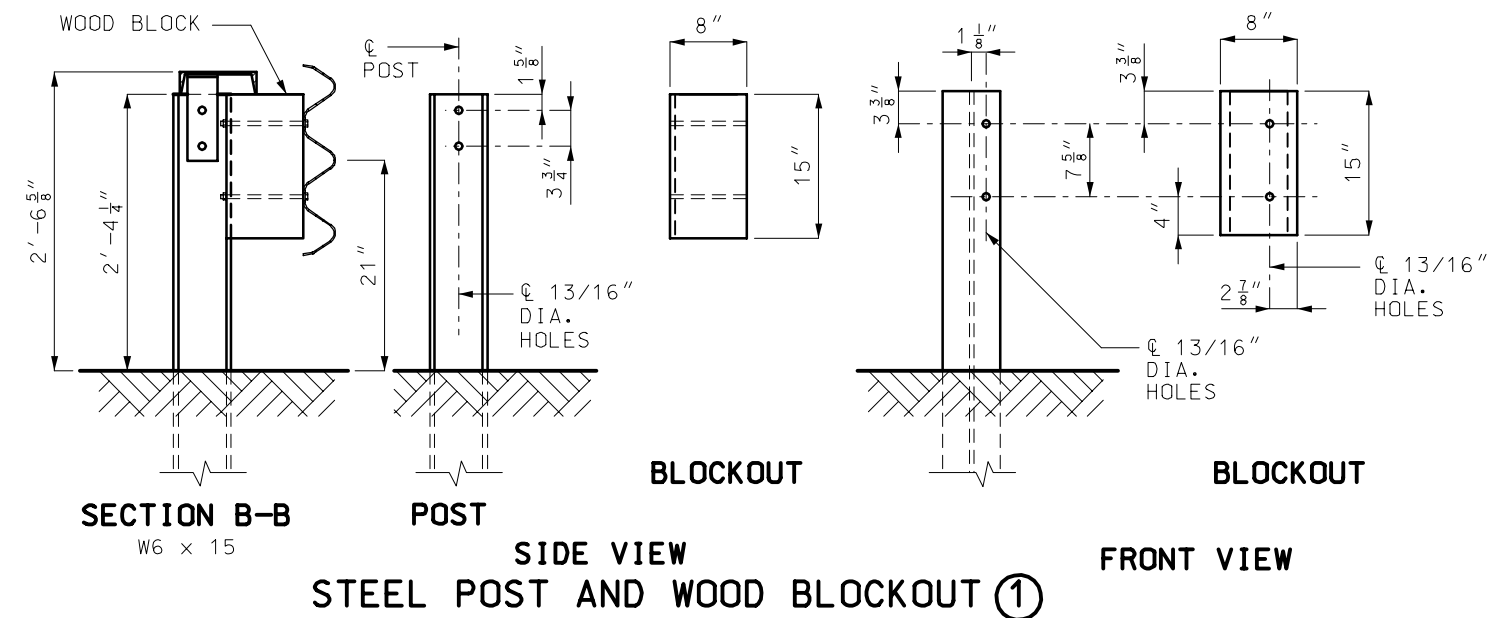
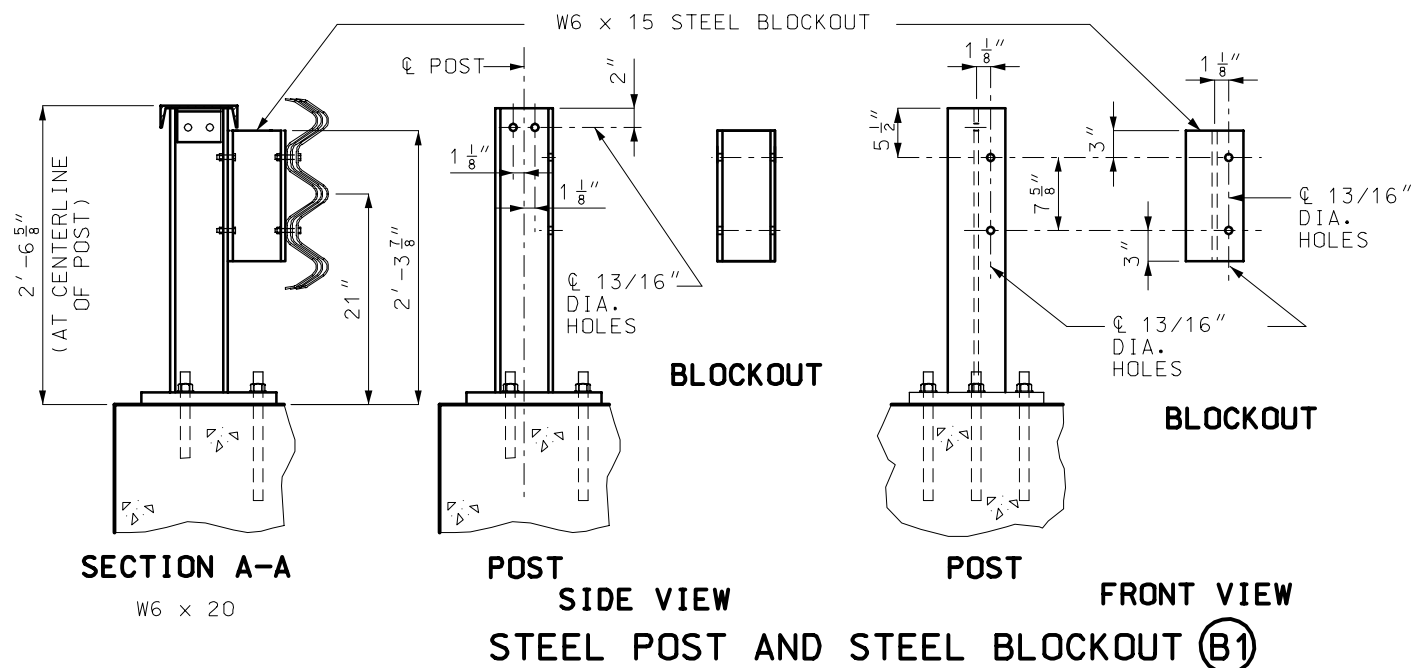
BRIDGE ANCHOR SECTION
(THRIE BEAM RAIL ON BRIDGE)

DATE: _____

EFFECTIVE: 07-01-2004

606.23G

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5



GENERAL NOTES:

DESIGN BASED UPON NCHRP REPORT 350 TEST LEVEL 3 (TL-3)

THE THRIE BEAM RAIL FOR THE BRIDGE ANCHOR SECTION SHALL BE 12 GAGE OR 10 GAGE AT THE CONTRACTOR'S OPTION, AND THE TRANSITION SECTION SHALL BE 12 GAGE.

FABRICATED STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

FOR PROTECTIVE COATING AND MATERIAL REQUIREMENTS, SEE SECTION 1040 OF THE STANDARD SPECIFICATIONS.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WASHERS SHALL BE USED AT ALL POST BOLTS (BETWEEN BOLT HEAD AND BEAM). THEY SHALL BE RECTANGULAR IN SHAPE (3" x 1-3/4" x 3/16" MIN.) AND FLAT, OR WHEN NECESSARY OF SUCH DESIGN AS TO FIT THE CONTOUR OF THE BEAM. WASHERS SHALL HAVE A 11/16" x 1" SLOTTED HOLE.

USE 5/8" BUTTON-HEAD, OVAL SHOULDER BOLTS WITH HEX NUTS (THICKNESS OF HEX NUTS = 3/8" MIN.) AT ALL SLOTS.

ALL LAP SPLICES SHALL BE MADE IN THE DIRECTION OF TRAFFIC.

THE COST OF FURNISHING, FABRICATING AND INSTALLING TRANSITION SECTION, COMPLETE-IN-PLACE, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH.

THE COST OF FURNISHING, FABRICATING AND INSTALLING BRIDGE ANCHOR SECTION (THRIE BEAM), COMPLETE-IN-PLACE, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH.

FOR DETAILS NOT SHOWN, SEE BRIDGE THRIE BEAM RAIL SHEET.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

BRIDGE ANCHOR SECTION
(THRIE BEAM RAIL ON BRIDGE)

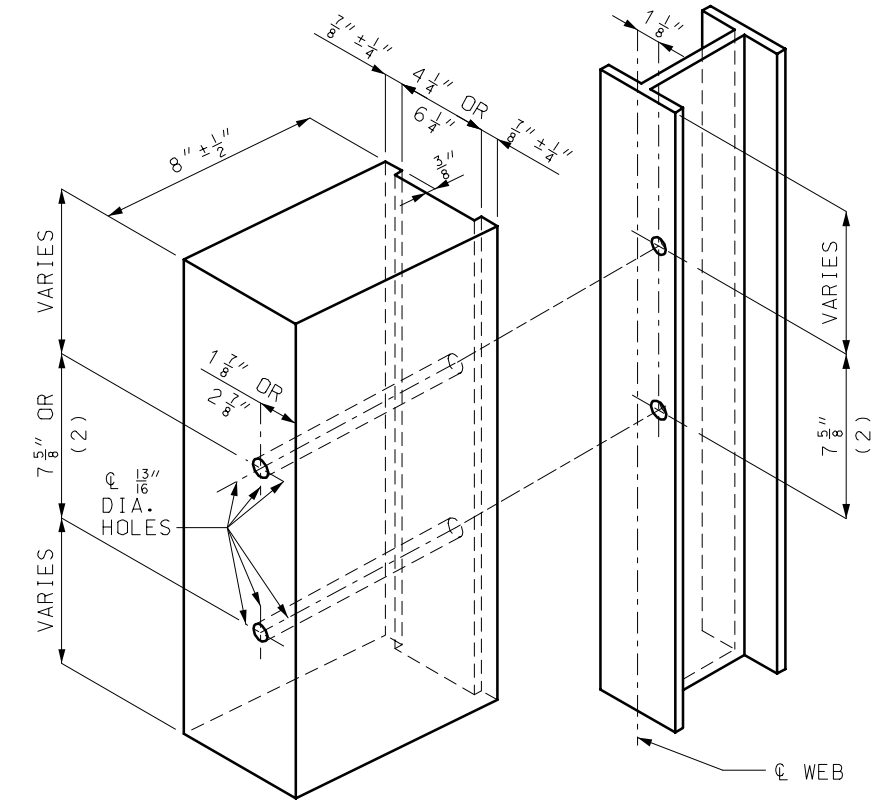
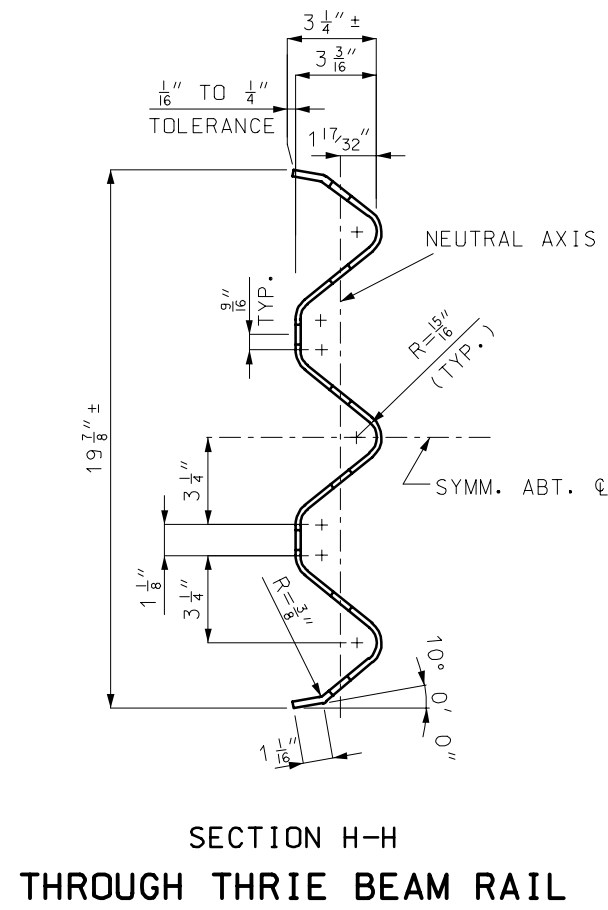
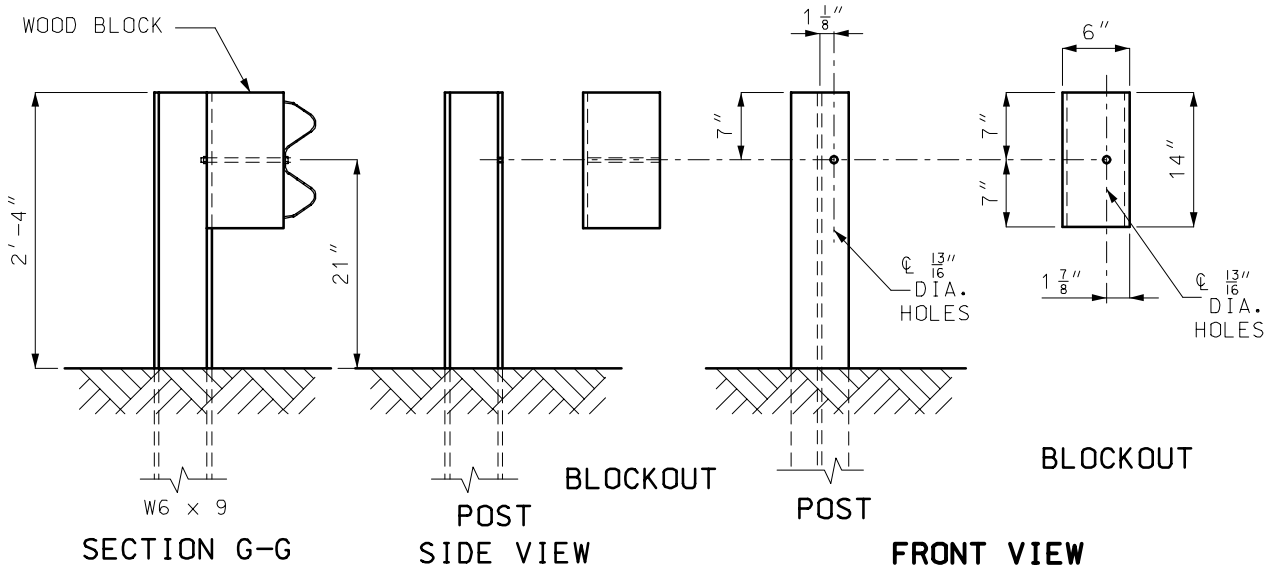
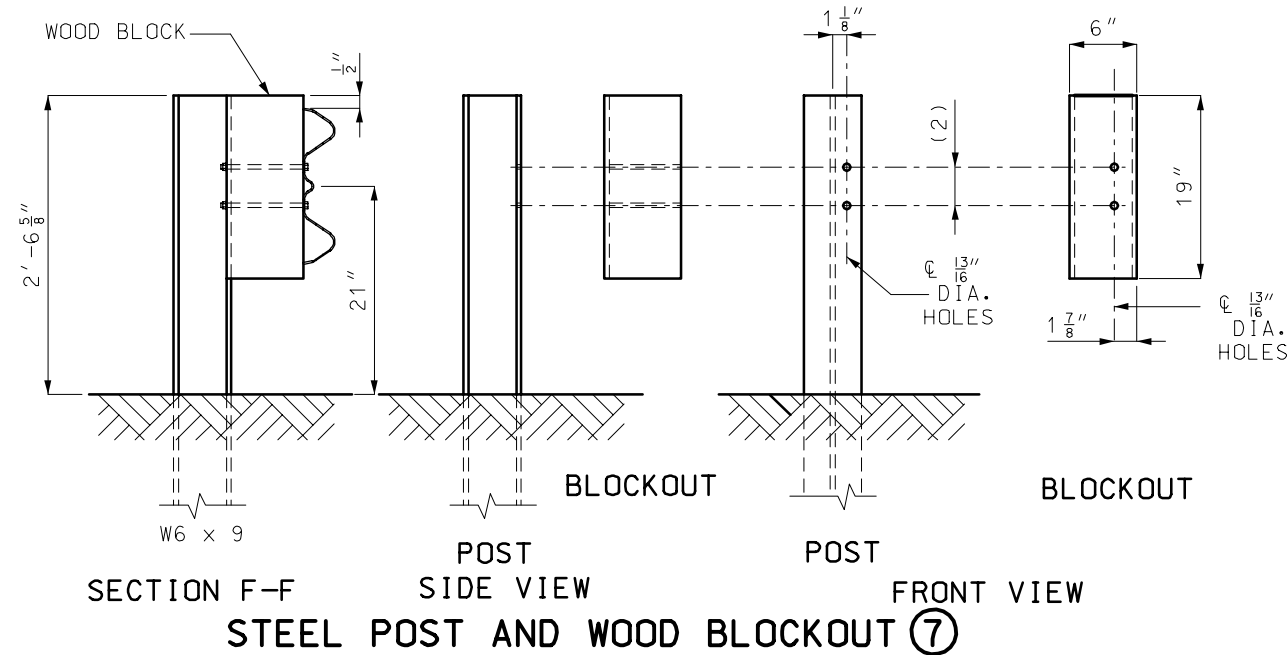
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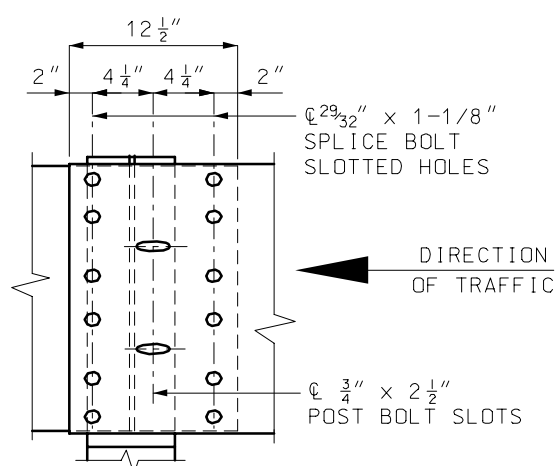
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(2) VERIFY BY RAIL TRANSITION PRODUCER.

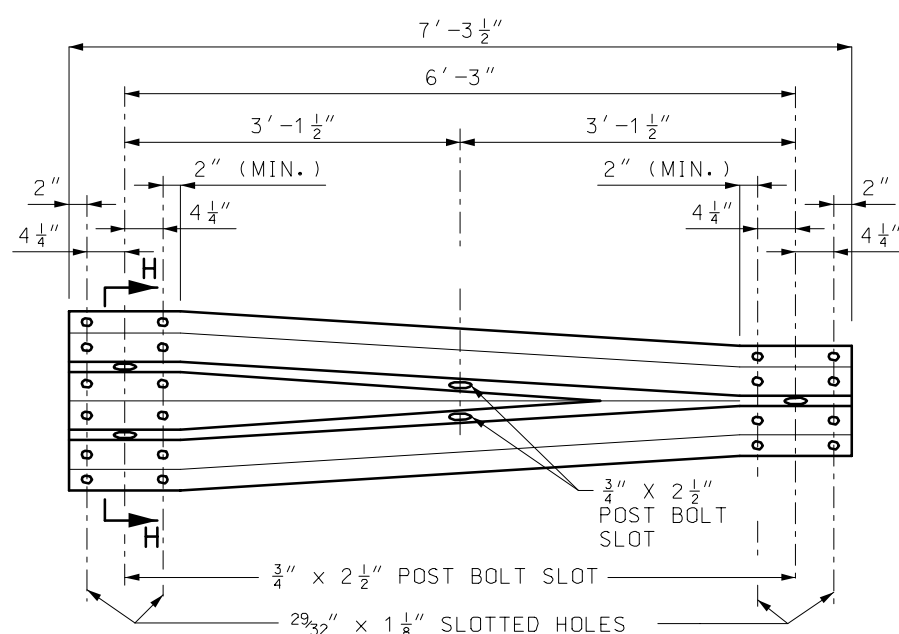


POST ⑦ - (2) VERIFY BY RAIL TRANSITION PRODUCER (SEE FRONT SHEET)
 POST ⑧ - ONLY 1 HOLE REQUIRED
 ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

HOLE PUNCHING DETAIL FOR STEEL POST & WOOD BLOCKS (6" AND 8")

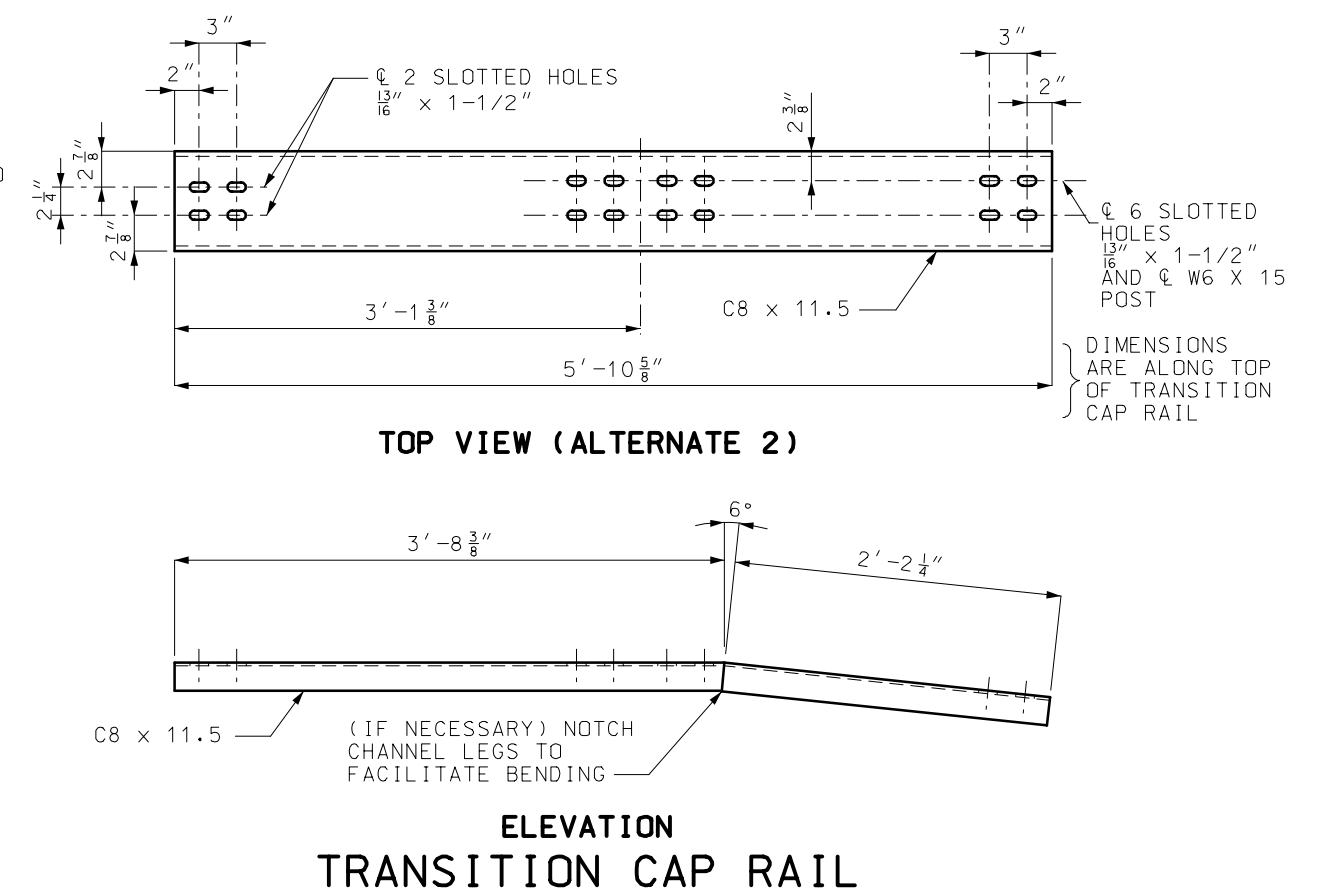
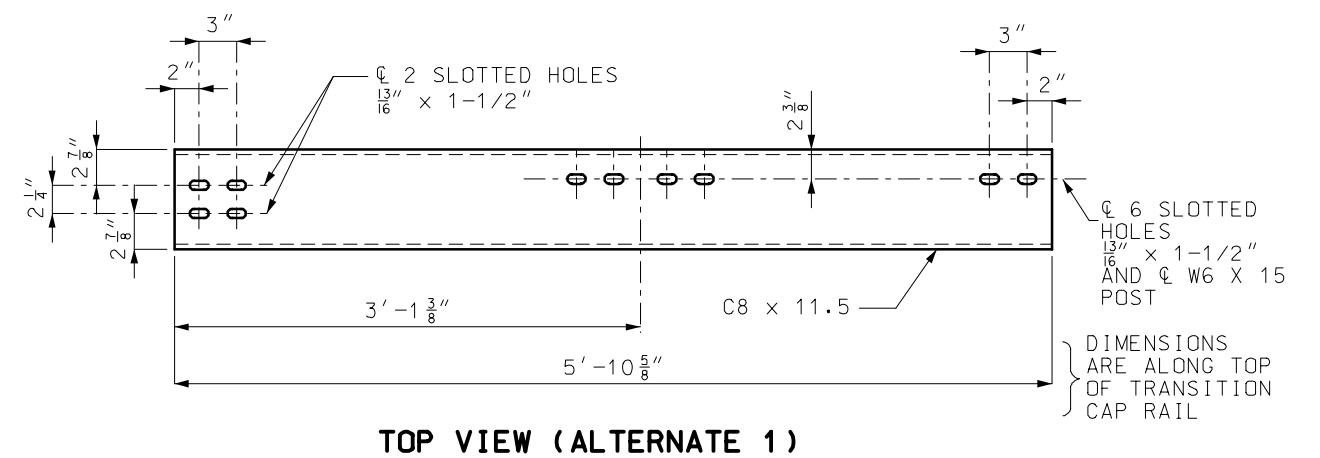


THRIE BEAM RAIL SPLICE AT POST

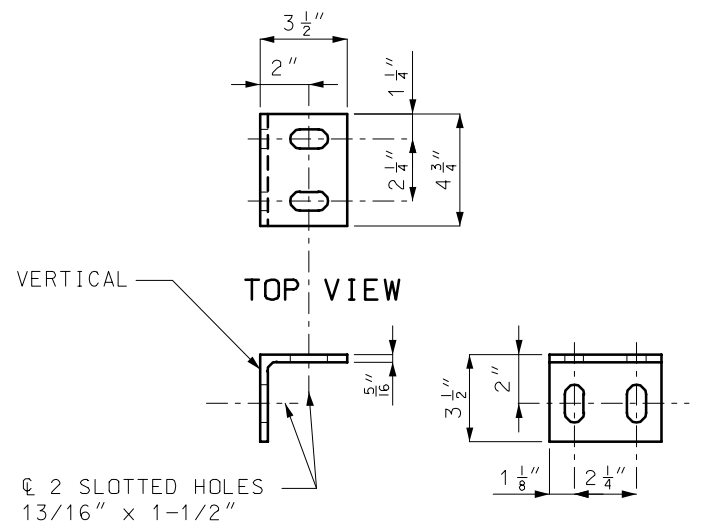


TRANSITION SECTION

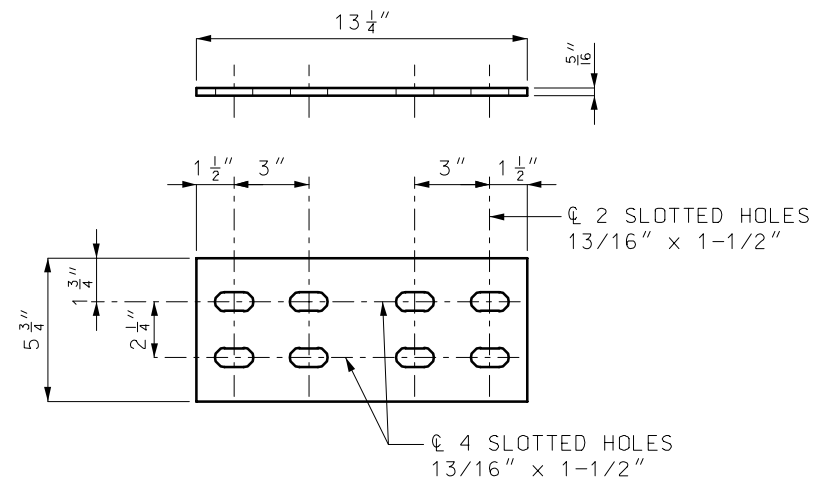
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)			
DATE: _____	EFFECTIVE: 07-01-2004	606.23G	3/5



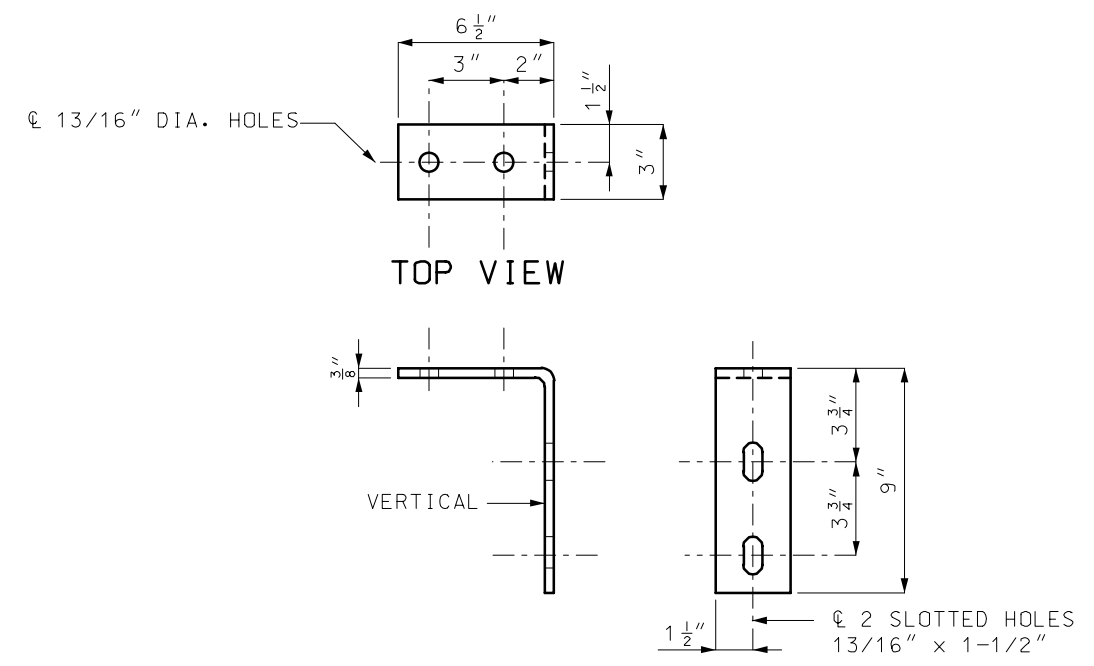
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)		
DATE: _____	EFFECTIVE: 07-01-2004	606.23G	4 5



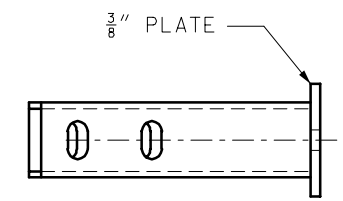
CAP RAIL ANGLE
 ∠ 3-1/2" x 3-1/2" x 5/16"



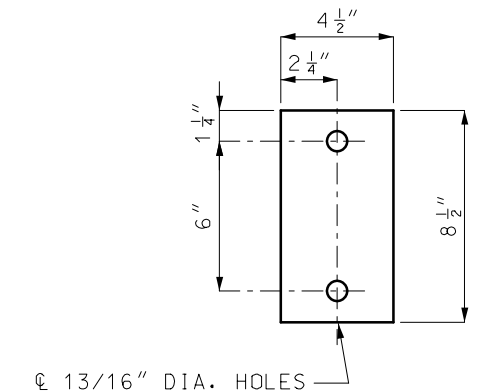
SPLICE PLATE



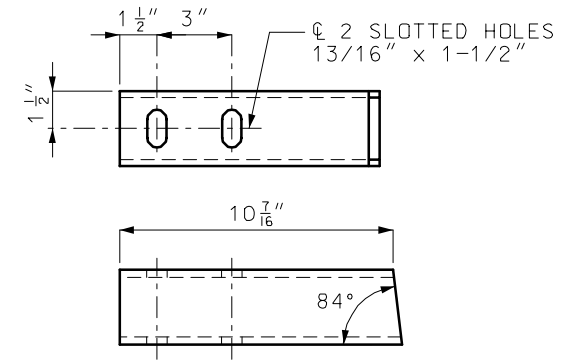
BENT PLATE CONNECTOR



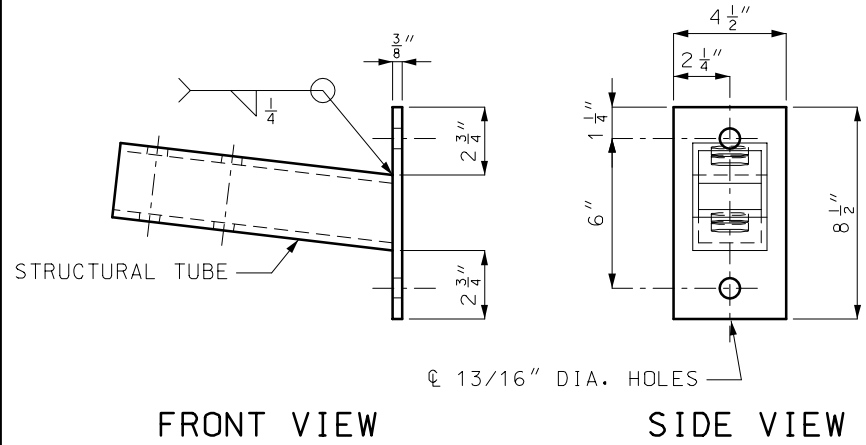
TOP VIEW



3/8" PLATE



STRUCTURAL TUBE
 TS 3" x 3" x 5/16"



TERMINATOR ASSEMBLY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)			
DATE: _____	EFFECTIVE: 07-01-2004	606.23G	5/5